

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/955,444

DATE: 02/07/2002 TIME: 13:31:20

Input Set : A:\EP.txt

Output Set: N:\CRF3\02072002\1955444.raw

| 3       | <110>  | APPLICANT: Wilson, James M.  | 5-     | TIAT      | ERE       |          |    |
|---------|--------|--|--------|-----------|-----------|----------|----|
|         |        | Auricchio, Alberto   |        | I VI      |           | . اسا    |    |
|         |        | Hildinger, Markus  |        |           |           |          |    |
|         |        | TITLE OF INVENTION: Compositions and Methods   | Useful | for Non   | -Tnvasive | Delivery | ٥f |
| Therape |        | The state of the s | oberar | 101 11011 | Invasive  | Delivery | 01 |
| 8       |        | Molecules to the Bloodstream   |        |           |           |          |    |
| 10      | <130>  | FILE REFERENCE: UPN-N2605  |        | •         |           |          |    |
|         |        | CURRENT APPLICATION NUMBER: US 09/955,444  |        |           |           |          |    |
|         |        | CURRENT FILING DATE: 2001-09-17  |        |           |           |          |    |
|         |        | PRIOR APPLICATION NUMBER: 60/200,409   |        |           |           |          | •  |
|         |        | PRIOR FILING DATE: 2000-04-28  |        |           |           |          |    |
|         |        | PRIOR APPLICATION NUMBER: PCT/US01/13000   |        |           |           |          |    |
| 19      | <151>  | PRIOR FILING DATE: 2001-04-23  |        |           |           | -        |    |
| 21      | <160>  | NUMBER OF SEQ ID NOS: 18   |        |           |           |          |    |
|         |        | SOFTWARE: PatentIn version 3.1   |        |           |           |          |    |
| 25      | <210>  | SEQ ID NO: 1   |        |           |           |          |    |
| 26      | <211>  | LENGTH: 26   |        |           |           |          |    |
| 27      | <212>  | TYPE: DNA  |        |           |           |          |    |
| 28      | <213>  | ORGANISM: Artificial sequence  |        |           |           |          |    |
| 30      | <220>  | FEATURE:   |        |           |           |          |    |
| 31      | <223>  | OTHER INFORMATION: CLONE/CMV promoter/NheI+  |        |           |           |          |    |
| 33      | <400>  | SEQUENCE: 1  |        |           |           |          |    |
| 34      | aagcta | gcta gttattaata gtaatc   |        |           | 26        |          |    |
| 37      | <210>  | SEQ ID NO: 2   |        |           |           |          |    |
|         |        | LENGTH: 28   |        |           |           |          |    |
|         |        | TYPE: DNA  |        |           |           |          |    |
| 40      | <213>  | ORGANISM: Artificial sequence  |        |           |           |          |    |
|         |        | FEATURE:   | •      |           |           |          |    |
|         |        | OTHER INFORMATION: CLONE/CMV promoter/PstI-  |        |           |           |          |    |
|         |        | SEQUENCE: 2  |        |           |           | ٠        |    |
|         |        | agga tctgacggtt cactaaac   |        |           | 28        |          |    |
|         |        | SEQ ID NO: 3   |        |           |           |          |    |
|         |        | LENGTH: 26   |        |           |           |          |    |
|         |        | TYPE: DNA  |        |           |           |          |    |
|         |        | ORGANISM: Artificial sequence  |        |           |           |          |    |
|         |        | FEATURE:   |        |           |           |          |    |
|         |        | OTHER INFORMATION: CLONE/SV40 intron/Pst+  |        |           |           |          | •  |
|         |        | SEQUENCE: 3  |        |           |           |          |    |
|         |        | agaa gttggtcgtg aggcac   | •-     |           | 26        |          |    |
|         |        | SEQ ID NO: 4   |        |           |           |          |    |
|         |        | LENGTH: 30   |        |           |           |          |    |
|         |        | TYPE: DNA  |        |           |           |          |    |
|         |        | ORGANISM: Artificial sequence  |        |           |           |          |    |
| 66      | <220>  | FEATURE:   |        |           |           |          |    |

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/955,444 DATE: 02/07/2002 TIME: 13:31:20

Input Set : A:\EP.txt
Output Set: N:\CRF3\02072002\I955444.raw

| 67 <223> OTHER INFORMATION: CLONE/SV40 intron/NotI-69 <400> SEQUENCE: 4 | •  |
|---|----|
| 70 aageggeege etggacaeet gtggagaaag                                     | 30 |
| 73 <210> SEQ ID NO: 5   |    |
| 74 <211> LENGTH: 31   |    |
| 75 <212> TYPE: DNA  | •  |
| 76 <213> ORGANISM: Artificial sequence                                  |    |
| 78 <220> FEATURE:   |    |
| 79 <223> OTHER INFORMATION: CLONE/lacZ/NotI+ 81 <400> SEQUENCE: 5       |    |
| 82 aageggeege catgaceatg attaeggatt e                                   | 31 |
| 85 <210> SEQ ID NO: 6   | 31 |
| 86 <211> LENGTH: 26   |    |
| 87 <212> TYPE: DNA  |    |
| 88 <213> ORGANISM: Artificial sequence                                  |    |
| 90 <220> FEATURE:   | •  |
| 91 <223> OTHER INFORMATION: CLONE/lacZ/BamHI-                           |    |
| 93 <400> SEQUENCE: 6  |    |
| 94 ttggatcctt atttttgaca ccagac   | 26 |
| 97 <210> SEQ ID NO: 7   |    |
| 98 <211> LENGTH: 26   |    |
| 99 <212> TYPE: DNA  |    |
| 100 <213> ORGANISM: Artificial sequence                                 |    |
| 102 <220> FEATURE:  |    |
| 103 <223> OTHER INFORMATION: CLONE/WPRE/BamHI+                          |    |
| 105 <400> SEQUENCE: 7   |    |
| 106 aaggatccaa tcaacctctg gattac  | 26 |
| 109 <210> SEQ ID NO: 8  |    |
| 110 <211> LENGTH: 28  |    |
| 111 <212> TYPE: DNA   |    |
| 112 <213> ORGANISM: Artificial sequence 114 <220> FEATURE:              | •  |
| 114 \220 FEATURE. 115 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \               |    |
| 117 <400> SEQUENCE: 8   |    |
| 118 ttagatctcg aagacgcgga agaggccg                                      | 28 |
| 121 <210> SEQ ID NO: 9  | 20 |
| 122 <211> LENGTH: 29  |    |
| 123 <212> TYPE: DNA   | ·  |
| 124 <213> ORGANISM: Artificial sequence                                 |    |
| 126 <220> FEATURE:  |    |
| 127 <223> OTHER INFORMATION: CLONE/BGH pA/BglII+                        |    |
| 129 <400> SEQUENCE: 9   |    |
| 130 tttagatetg cetegaetgt geettetag                                     | 29 |
| 133 <210> SEQ ID NO: 10   |    |
| 134 <211> LENGTH: 29  |    |
| 135 <212> TYPE: DNA   |    |
| 136 <213> ORGANISM: Artificial sequence                                 |    |
| 138 <220> FEATURE:  |    |
| 139 <223> OTHER INFORMATION: CLONE/BGH pA/Xhoi-                         |    |

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/955,444

DATE: 02/07/2002 TIME: 13:31:20

Input Set : A:\EP.txt

Output Set: N:\CRF3\02072002\1955444.raw

|     | <400> SEQUENCE: 10  |    |
|-----|---|----|
|     | aactcgagtc cccagcatgc ctgctattg   | 29 |
|     | <210> SEQ ID NO: 11 .   |    |
|     | <211> LENGTH: 42  |    |
|     | <212> TYPE: DNA   |    |
|     | <213> ORGANISM: Artificial sequence   |    |
|     | <220> FEATURE:  |    |
|     | <223> OTHER INFORMATION: CLONE/AAV2rep.cap seemless+  |    |
|     | <400> SEQUENCE: 11  |    |
|     | agttactctt cttgcttgtt aatcaataaa ccgtttaatt cg  | 42 |
|     | <210> SEQ ID NO: 12   |    |
|     | <211> LENGTH: 44  |    |
|     | <212> TYPE: DNA   |    |
|     | <213> ORGANISM: Artificial sequence   |    |
|     | <220> FEATURE:  |    |
|     | <pre>&lt;223&gt; OTHER INFORMATION: CLONE/AAV2rep.cap seemless-</pre>                       |    |
|     | <400> SEQUENCE: 12  |    |
|     | agttactctt cacctgattt aaatcattta ttgttcaaag atgc  | 44 |
|     | <210> SEQ ID NO: 13   |    |
|     | <211> LENGTH: 46  |    |
|     | <212> TYPE: DNA   |    |
|     | <213> ORGANISM: Artificial sequence   |    |
|     | <220> FEATURE:  |    |
|     | <pre>&lt;223&gt; OTHER INFORMATION: CLONE/AAV5 Cap seemless+ &lt;400&gt; SEQUENCE: 13</pre> |    |
|     | agttactctt ccaggtatgt cttttgttga tcaccctcca gattgg  | 46 |
|     | <210> SEQ ID NO: 14   | 40 |
|     | <211> LENGTH: 45  |    |
|     | <212> TYPE: DNA   |    |
|     | <213> ORGANISM: Artificial sequence   |    |
|     | <220> FEATURE:  |    |
|     | <223> OTHER INFORMATION: CLONE/AAV5 Cap seemless-   |    |
|     | <400> SEQUENCE: 14  |    |
|     | agttactctt cagcaattaa aggggtcggg taaggtatcg ggttc   | 45 |
|     | <210> SEQ ID NO: 15   |    |
|     | <211> LENGTH: 47  |    |
|     | <212> TYPE: DNA   |    |
|     | <213> ORGANISM: Artificial sequence   |    |
|     | <220> FEATURE:  |    |
| 199 | <223> OTHER INFORMATION: CLONE/AAV5/NheI-XhoI   |    |
|     | <400> SEQUENCE: 15  |    |
|     | aaactcgaga ttgctagctc actgcttaca aaaccccctt gcttgag   | 47 |
|     | <210> SEQ ID NO: 16   |    |
| 206 | <211> LENGTH: 26  |    |
| 207 | <212> TYPE: DNA   |    |
| 208 | <213> ORGANISM: Artificial sequence   |    |
| 210 | <220> FEATURE:  |    |
|     | <223> OTHER INFORMATION: CLONE/AAV5/XhoI+   |    |
|     | <400> SEQUENCE: 16  |    |
|     | •   |    |

RAW SEQUENCE LISTING DATE: 02/07/2002 PATENT APPLICATION: US/09/955,444 TIME: 13:31:20

Input Set : A:\EP.txt
Output Set: N:\CRF3\02072002\I955444.raw

| 214 | ttcacagctt acaacatcta caaaac                       | 26 |
|-----|--|----|
| 217 | <210> SEQ ID NO: 17                                |    |
| 218 | <211> LENGTH: 33                                   |    |
| 219 | <212> TYPE: DNA                                    |    |
| 220 | <213> ORGANISM: Artificial sequence                |    |
| 222 | <220> FEATURE:                                     |    |
| 223 | <223> OTHER INFORMATION: CLONE/eGFP/NotI+          |    |
| 225 | <400> SEQUENCE: 17                                 |    |
| 226 | aaagcggccg.ccatggtgag caagggcgag gag               | 33 |
| 229 | <210> SEQ ID NO: 18                                |    |
| 230 | <211> LENGTH: 39                                   |    |
| 231 | <212> TYPE: DNA                                    |    |
| 232 | <213> ORGANISM: Artificial sequence                |    |
| 234 | <220> FEATURE:                                     |    |
| 235 | <223> OTHER INFORMATION: CLONE/eGFP/HindIII-BamHI- |    |
| 237 | <400> SEQUENCE: 18                                 |    |
| 238 | aaggatccaa gcttattact tgtacagetc gtccatgcc         | 39 |

VERIFICATION SUMMARY

DATE: 02/07/2002

PATENT APPLICATION: US/09/955,444

TIME: 13:31:21

Input Set : A:\EP.txt

Output Set: N:\CRF3\02072002\I955444.raw